

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The Office Action dated December 18, 2006, has been received and its contents carefully reviewed.

Claims 1-15 are rejected by the Examiner. With this response, claims 1, 3, 7, 9, 10, and 14 have been amended. No new matter has been added. Claims 1-15 remain pending in this application.

In the Office Action, claims 1-5, 10 and 12 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,514,503 to Evans et al. (hereinafter "Evans") in view of U.S. Patent No. 4,653,272 to Kugo et al. (hereinafter "Kugo"). Claims 6-9, 11 and 13-15 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Evans in view of Kugo and further in view of Japanese Publication No. 11-326621 to Aoki et al. (hereinafter "Aoki").

The rejection of claims 1-5, 10 and 12 under 35 U.S.C. § 103(a) as being unpatentable over Evans in view of Kugo is respectfully traversed and reconsideration is requested. Applicants respectfully submit that Evans and Kugo, analyzed singly or in combination do not teach the combination of features recited in the claims.

Independent claim 1 recites a method of fabricating a color filter for a Liquid Crystal Display (LCD) device having a combination of features including "repositioning the Red, Green and Blue colored inks from the cliché to the active area and the dummy area of the substrate wherein repositioning the Red, Green and Blue colored inks from the cliché includes transferring colored inks filled in the grooves of the cliché from the cliché onto a printing roll by rotating the printing roll over the colored inks on the cliché."

In the Office Action, the Examiner cites column 9, lines 20-29 as teaching "transferring the colored inks filled into the grooves of the cliché unto the printing roll (14) by rotating the printing roll on the cliché in which the Red, Green, and Blue colored inks are filled." Applicants respectfully disagree that the Evans including the portion cited by the Examiner teaches the above quoted combination of features of claim 1.

Evans states the following at column 9, lines 15-29:

The following is a description of how the red, green, and blue color cells are deposited within the recesses 11 formed by black matrix pattern 10 on transfer layer 14, all of which is supported by collector roll 16.

In the apparatus of FIG. 5, a single imaging pattern roll 50, having multiple printing patterns thereon, is utilized to apply the red, green and blue color dot patterns. Pattern roll 50 may be virtually any form of roll capable of producing an ink pattern or image, including lithographic, typographic, waterless lithographic, and so forth. Preferably, pattern roll 50 is a flexographic or other type of typographic printing roll. Alternatively, the color may be transferred from a typographic print plate rather than a roll.

Applicants submit that the portion of Evans cited by the Examiner recites a process for depositing colored ink “within the recesses 11 formed by black matrix pattern 10 on transfer layer 14” which the Examiner identifies as the cliché, and accordingly does not teach “transferring colored inks filled in the grooves of the cliché from the cliché onto a printing roll by rotating the printing roll over the colored inks on the cliché” as recited by claim 1. Applicants submit that no portion of Evans including the portion cited by the Examiner teaches “transferring colored inks filled in the grooves of the cliché from the cliché onto a printing roll by rotating the printing roll over the colored inks on the cliché.”

The Examiner cites Kugo as allegedly curing the deficiency in the teachings of Evans with regards to “wherein the Red, Green, Blue colored inks are co-planar in the dummy area.” Applicants do not reach the Examiner’s conclusion regarding the teachings of Kugo. Applicants submit that Kugo does not cure the deficiencies in the teachings of Evans identified above. Accordingly, Applicants respectfully submit that Evans and Kugo, analyzed singly or in combination do not teach the combination of features recited in claim independent claim, and that claim 1, and claims 2-5 depending from claim 1 are allowable over Evans and Kugo.

Claims 10 and 12 each recites a color filter substrate for a Liquid Crystal Display device having a combination of features including “a black matrix for defining sub-pixels of red, green and blue in the active area and in the dummy area on the substrate.” Applicants submit that Evans and Kugo do not teach at least “a black matrix for defining sub-pixels of red, green and blue ... in the dummy area on the substrate.” Accordingly, Applicants submit that claim 10 and 12 are allowable over Evans and Kugo.

The rejection of claims 6-9, 11 and 13-15 under 35 U.S.C. § 103(a) as being unpatentable over Evans in view of Kugo and further in view of Aoki is respectfully traversed and reconsideration is requested.

Claims 6-8 depend from claim 1 and include by reference all of the limitations of claim 1. As discussed above, Evans and Kugo do not teach or suggest all of the elements of claim 1. The Examiner cites Aoki as allegedly teaching “forming a black matrix between the Red, Green and Blue colored ink of the dummy area.”

Applicants submit that even assuming the Examiner conclusion concerning the teachings of Aoki is correct, Aoki does not cure the deficiencies in the teachings of Evans and Kugo discussed above with regards to the combination of elements recited in claim 1. Applicants respectfully submit that Evans, Kugo, and Aoki, analyzed singly or in any combination do not teach at least “wherein repositioning the Red, Green and Blue colored inks from the cliché includes transferring colored inks filled in the grooves of the cliché from the cliché onto a printing roll by rotating the printing roll over the colored inks on the cliché.” Accordingly, Applicants submit that claim 1, and claims 6-8 depending from claim 1 are allowable over Evans, Kugo, and Aoki for at least this reason.

Claim 9 recites a method of fabricating a color filter for a Liquid Crystal Display device having a combination of features including “transferring some of the colored inks filled in the grooves of the cliché from the cliché onto a printing roll by rotating the printing roll on the cliché in which the Red, Green and Blue colored inks are filled.” Applicants submit that Evans does not disclose at least this combination of features recited in claim 9. As discussed above for claim 1, Evans teaches a process for depositing colored ink “within the recesses 11 formed by black matrix pattern 10 on transfer layer 14.” Accordingly, Applicants submit that Evans does not teach “transferring some of the colored inks filled in the grooves of the cliché from the cliché onto a printing roll by rotating the printing roll on the cliché in which the Red, Green and Blue colored inks are filled” as recited by claim 9. Applicants further submit that Aoki and Kugo do not cure this deficiency in the teachings of Evans. As Evans, Aoki and Kugo, analyzed singly or in any combination do not teach or suggest at least the above identified combination of features of claim 9, Applicants respectfully submit that claim 9, and claims 14 and 15 depending from claim 9 are each allowable over Evans, Aoki and Kugo.

With respect to claim 11, claim 11 depends from claim 10 and includes by reference all of the elements of claim 10. As discussed above Evans and Kugo do not teach or suggest all of the elements of claim 11. The Examiner cites Aoki as teaching forming a black matrix between color filters. However, Applicants submit that Aoki does not teach “a black matrix for defining sub-pixels of red, green and blue ...in the dummy area on the substrate” and that further that the motivation to “prevent image distortion” as cited by the Examiner would not motivate one skilled in the art to provide “a black matrix for defining sub-pixels of red, green and blue ...in the dummy area on the substrate” as recited in claim 10. Accordingly, Applicants submit that Aoki does not cure the deficiencies in the teachings of Evans and Kugo. Accordingly, Applicants respectfully submit that as Evans, Kugo, and Aoki, analyzed singly or in combination do not teach or suggest the combined features of claim 10, claim 10, and claims 11 and 13 depending from claim 10 are each allowable over Evans, Kugo, and Aoki.

Applicants note that Applicants' claimed invention has a different object and effect than does the printing apparatus described in the cited references. For Example, claim 1 recites a method of fabricating a color filter in which colored ink is transferred from a cliché unto a printing roll in the desired pattern by rolling the printing roll over the cliché, and in which the inked printing roll is then used to print one or more color filters substrate. On the other hand, the Evans teaches rolling a deformable transfer layer onto a printing roll with the ink which is then printed onto a substrate. Thus in Evans ink is transferred unto the transfer layer and then onto the substrate, and is not transferred out of the cliché unto the printing roller and then unto a substrate. Accordingly, the printing device of Evans has a different object and effect than the claimed invention and cannot be used to practice the Applicants claimed method.

Applicants believe the above amendments and remarks place the application in condition for allowance and early, favorable action is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136, and any additional fees required under 37

C.F.R. § 1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911. *A duplicate copy of this sheet is enclosed.*

Respectfully submitted,

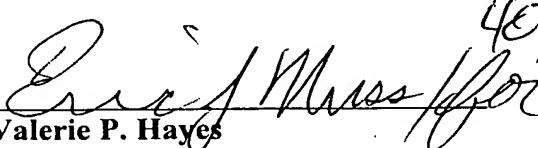
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